

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number  
**WO 2005/076726 A3**

(51) International Patent Classification<sup>7</sup>: H04Q 7/20,  
H04L 12/56

(21) International Application Number:  
PCT/IL2004/000942

(22) International Filing Date: 13 October 2004 (13.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/544,333 17 February 2004 (17.02.2004) US

(71) Applicant (for all designated States except US): CHECK-  
POINT SOFTWARE TECHNOLOGIES LTD. [IL/TL];  
Diamond Tower, 3a Jabotinsky St., 52520 Ramat Gan (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ABRAMOVICH,  
Aviv [IL/IL]; Diamond Tower, 3a Jabotinsky St., 52520  
Ramat Gan (IL).

(74) Agent: FRIEDMAN, Mark M.; C/O Polkinghorn, 9003  
Florin Way, Upper Marlboro, MD 20772 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

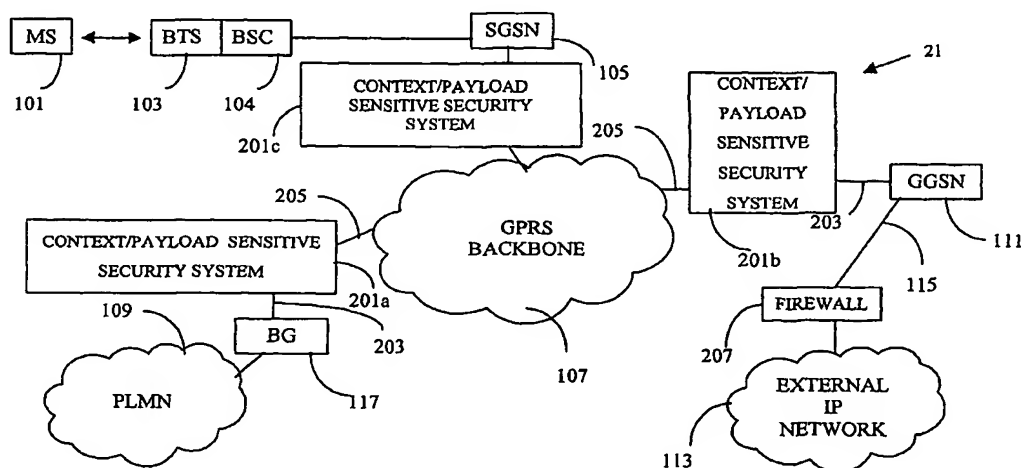
Published:

— with international search report

(88) Date of publication of the international search report:  
30 March 2006

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: MOBILE NETWORK SECURITY SYSTEM



(57) Abstract: A method for providing security in a mobile data network including a serving node, serving mobile stations and undergoing data communications with a gateway node, the data communications transferring data contained in data packets encapsulated in a tunnel by the serving node and the gateway node, each data packet including a payload and a reference to a protocol context, the protocol context including identifiers for each of the mobile stations using the tunnel, the method includes a mobile network security system. The mobile network security system monitors the creation, updating and destruction of the tunnel and reads the reference to the protocol context of the data packets; and selects a policy based on a tunnel profile that performs an action to the data packets. The action is preferably based on the payload.

WO 2005/076726 A3